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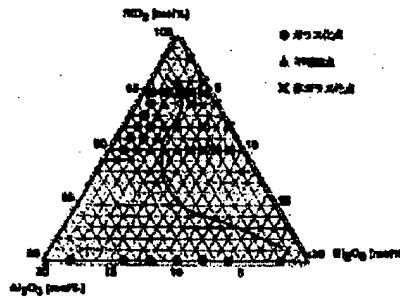
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OPTICAL FIBER AND OPTICAL AMPLIFIER

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 - European: C03C13/04D2
 Application number: JP20010047098 20010222
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PROBLEM TO BE SOLVED: To provide a highly efficient optical fiber and optical amplifier which are suitable for the amplification of a 1.3-μm band.
SOLUTION: In the optical amplifier, the optical fiber which is made of Bi-doped silica glass expressed by $x\text{Bi}_2\text{O}_3 \cdot y\text{Al}_2\text{O}_3 \cdot (1-x-y)\text{SiO}_2$ ($x < y$) and containing Bi_2O_3 in the amount of 0.1-10.0 mol% and Al_2O_3 in the amount of 2-20 mol% and conducts light amplification of the 1.3-μm band for semiconductor laser excitation of a 0.8-μm band is used.



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